

WEST Search History

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		<i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L4	aequorea and green fluorescent protein and 203 and 148	47
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Search Results - Record(s) 1 through 30 of 47 returned.

☐ 1. Document ID: US 6875578 B2

Using default format because multiple data bases are involved.

L4: Entry 1 of 47

File: USPT

Apr 5, 2005

US-PAT-NO: 6875578

DOCUMENT-IDENTIFIER: US 6875578 B2

TITLE: System for cell-based screening

DATE-ISSUED: April 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Giuliano; Kenneth	Pittsburgh	PA		
Kapur; Ravi	Gibsonia	PA		

US-CL-CURRENT: [435/7.2](#); [435/283.1](#), [435/40.51](#), [435/7.21](#), [436/172](#), [436/546](#), [436/808](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INMC	Draw. De
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☐ 2. Document ID: US 6863895 B2

L4: Entry 2 of 47

File: USPT

Mar 8, 2005

US-PAT-NO: 6863895

DOCUMENT-IDENTIFIER: US 6863895 B2

TITLE: Mycobacterial sulfation pathway proteins and methods of use thereof

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertozzi; Carolyn R.	Berkeley	CA		
Williams; Spencer J.	Berkeley	CA		
Mougous; Joseph D.	El Cerrito	CA		

US-CL-CURRENT: [424/248.1](#); [424/130.1](#), [424/164.1](#), [424/168.1](#), [424/184.1](#), [424/200.1](#), [424/234.1](#), [435/15](#), [435/183](#), [435/193](#), [435/29](#), [435/4](#), [435/440](#), [435/471](#), [435/7.1](#), [435/7.4](#)

ABSTRACT:

Novel mycobacterial sulfation pathway proteins and polypeptides related thereto, as well as nucleic acid compositions encoding the same, are provided. The subject polypeptide and nucleic acid compositions find use in a variety of applications, including research, diagnostic, and therapeutic agent screening applications. Also provided are methods of inhibiting growth and/or virulence of a pathogenic mycobacterium, and methods of treating disease conditions associated with a pathogenic mycobacterium, particularly by administering an inhibitor of a mycobacterial sulfation pathway protein. The present invention further provides genetically modified mycobacteria having a defect in a sulfation pathway enzyme gene; and immunogenic compositions that include such genetically modified mycobacteria.

19 Claims, 28 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 27

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NOTE	Draw De
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☐ 3. Document ID: US 6855517 B2

L4: Entry 3 of 47

File: USPT

Feb 15, 2005

US-PAT-NO: 6855517

DOCUMENT-IDENTIFIER: US 6855517 B2

TITLE: Compositions and methods relating to breast specific genes and proteins

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salceda; Susana	San Jose	CA		
Macina; Roberto A.	San Jose	CA		
Recipon; Herve E.	San Francisco	CA		
Cafferkey; Robert	San Jose	CA		
Sun; Yongming	San Jose	CA		
Liu; Chenghua	San Jose	CA		

US-CL-CURRENT: 435/69.1; 536/23.5

ABSTRACT:

The present invention relates to newly identified nucleic acids and polypeptides present in normal and neoplastic breast cells, including fragments, variants and derivatives of the nucleic acids and polypeptides. The present invention also relates to antibodies to the polypeptides of the invention, as well as agonists and antagonists of the polypeptides of the invention. The invention also relates to compositions comprising the nucleic acids, polypeptides, antibodies, variants, derivatives, agonists and antagonists of the invention and methods for the use of these compositions. These uses include identifying, diagnosing, monitoring, staging, imaging and treating breast cancer and non-cancerous disease states in

breast tissue, identifying breast tissue, monitoring and identifying and/or designing agonists and antagonists of polypeptides of the invention. The uses also include gene therapy, production of transgenic animals and cells, and production of engineered breast tissue for treatment and research.

8 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 4. Document ID: US 6849717 B1

L4: Entry 4 of 47

File: USPT

Feb 1, 2005

US-PAT-NO: 6849717

DOCUMENT-IDENTIFIER: US 6849717 B1

TITLE: Polycystic kidney disease gene homologs required for male mating behavior in nematodes and assays based thereon

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sternberg; Paul W.	Pasadena	CA		
Barr; Maureen M.	Pasadena	CA		

US-CL-CURRENT: 530/350

ABSTRACT:

Nematodes, such as *Caenorhabditis elegans*, that express mutant and wild-type orthologs of human genes involved in polycystic kidney diseases (PKDs), are used to study the functions of the proteins encoded by the genes, to screen for other genes involved in the diseases, to identify mutations involved in the diseases, and to screen for drugs that affect PKD. Behaviors controlled by the action of the genes or gene products are identified and used in the assays. Hence an animal model is provided that permits study of the etiology of polycystic kidney disease and provides a tool to identify the genes involved in the disease pathway, and to identify compounds that may be used to treat or alter the disease progression, lessen its severity or ameliorate symptoms. The nematode genes that encode protein products, mutants of the genes, vectors that contain the genes and mutant genes and nematode strains that contain the vectors are also provided.

6 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 5. Document ID: US 6846650 B2

L4: Entry 5 of 47

File: USPT

Jan 25, 2005

US-PAT-NO: 6846650

DOCUMENT-IDENTIFIER: US 6846650 B2

TITLE: Compositions and methods relating to lung specific genes and proteins

DATE-ISSUED: January 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Recipon; Herve E.	San Francisco	CA		
Sun; Yongming	San Jose	CA		
Chen; Sei-Yu	Foster City	CA		
Liu; Chenghua	San Jose	CA		
Turner; Leah R.	Sunnyvale	CA		

US-CL-CURRENT: 435/69.1; 536/23.5

ABSTRACT:

The present invention relates to newly identified nucleic acids and polypeptides present in normal and neoplastic lung cells, including fragments, variants and derivatives of the nucleic acids and polypeptides. The present invention also relates to antibodies to the polypeptides of the invention, as well as agonists and antagonists of the polypeptides of the invention. The invention also relates to compositions comprising the nucleic acids, polypeptides, antibodies, variants, derivatives, agonists and antagonists of the invention and methods for the use of these compositions. These uses include identifying, diagnosing, monitoring, staging, imaging and treating lung cancer and non-cancerous disease states in lung, identifying lung tissue, monitoring and identifying and/or designing agonists and antagonists of polypeptides of the invention. The uses also include gene therapy, production of transgenic animals and cells, and production of engineered lung tissue for treatment and research.

8 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Draw De
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☐ 6. Document ID: US 6824981 B2

L4: Entry 6 of 47

File: USPT

Nov 30, 2004

US-PAT-NO: 6824981

DOCUMENT-IDENTIFIER: US 6824981 B2

TITLE: Ultra-sensitive detection systems using alterable peptide tags

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chait; Brian T.	New York	NY		
Latimer; Darin R.	East Haven	CT		
Lizardi; Paul M.	Wallingford	CT		
Kershner; Eric R.	New Haven	CT		
Morrow; Jon S.	Madison	CT		
Roth; Matthew E.	Branford	CT		
Mattessich; Martin J.	Woodbridge	CT		
McConnell; Kevin J.	Branford	CT		

US-CL-CURRENT: 435/6; 435/252.3, 530/300, 530/344, 530/350, 530/412, 536/23.4

ABSTRACT:

Disclosed are compositions and methods for sensitive detection of one or multiple analytes. In general, the methods involve the use of special label components, referred to as reporter signals, that can be associated with, incorporated into, or otherwise linked to the analytes. In some embodiments, the reporter signals can be altered such that the altered forms of different reporter signals can be distinguished from each other. In some embodiments, sets of reporter signals can be used where two or more of the reporter signals in a set have one or more common properties that allow the reporter signals having the common property to be distinguished and/or separated from other molecules lacking the common property. In other embodiments, sets of reporter signal/analyte conjugates can be used where two or more of the reporter signal/analyte conjugates in a set have one or more common properties that allow the reporter signal/analyte conjugates having the common property to be distinguished and/or separated from other molecules lacking the common property. Reporter signals can also be in conjunction with analytes (such as in mixtures of reporter signals and analytes), where no significant physical association between the reporter signals and analytes occurs; or alone, where no analyte is present.

513 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw De
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☐ 7. Document ID: US 6800733 B2

L4: Entry 7 of 47

File: USPT

Oct 5, 2004

US-PAT-NO: 6800733

DOCUMENT-IDENTIFIER: US 6800733 B2

TITLE: Modified green fluorescent proteins

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Tsien; Roger Y. La Jolla CA
Heim; Roger Del Mar CA

US-CL-CURRENT: 530/350; 530/855, 536/23.5

ABSTRACT:

Modifications in the sequence of Aequorea wild-type GFP provide products having markedly different excitation and emission spectra from corresponding products from wild-type GFP. In one class of modifications, the product derived from the modified GFP exhibits an alteration in the ratio of two main excitation peaks observed with the product derived from wild-type GFP. In another class, the product derived from the modified GFP fluoresces at a shorter wavelength than the corresponding product from wild-type GFP. In yet another class of modifications, the product derived from the modified GFP exhibits only a single excitation peak and enhanced emission relative to the product derived from wild-type GFP.

10 Claims, 10 Drawing figures
Exemplary Claim Number: 8
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	MMC	Drawing
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☐ 8. Document ID: US 6756207 B1

L4: Entry 8 of 47

File: USPT

Jun 29, 2004

US-PAT-NO: 6756207

DOCUMENT-IDENTIFIER: US 6756207 B1

TITLE: System for cell-based screening

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Giuliano; Kenneth A.	Pittsburgh	PA		
Bright; Gary	Allison Park	PA		
Olson; Keith	Pittsburgh	PA		
Burroughs Tencza; Sarah	Pittsburgh	PA		

US-CL-CURRENT: 435/7.2; 435/287.8, 435/287.9, 435/288.3, 435/288.4, 435/29,
435/40.5, 435/40.51, 435/455, 435/7.21, 436/164, 436/172, 436/518, 436/527,
436/546, 436/63, 436/800, 436/809, 530/300, 530/350, 536/23.1, 536/23.4, 536/23.5,
536/23.53

ABSTRACT:

The present invention provides systems, methods, screens, reagents and kits for optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically

affect particular biological functions.

5 Claims, 117 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 100

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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9. Document ID: US 6727071 B1

L4: Entry 9 of 47

File: USPT

Apr 27, 2004

US-PAT-NO: 6727071

DOCUMENT-IDENTIFIER: US 6727071 B1

TITLE: System for cell-based screening

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunlay; R. Terry	New Kensington	PA		
Taylor; D. Lansing	Pittsburgh	PA		
Gough; Albert H.	Glenshaw	PA		
Giuliano; Kenneth A.	Pittsburgh	PA		

US-CL-CURRENT: 435/7.21; 382/255, 435/288.4, 435/375, 435/377, 435/4, 435/6,
435/7.1, 435/7.2, 435/7.5, 436/10, 436/164 , 436/166, 436/17, 436/172, 436/174,
436/517, 436/546, 436/63

ABSTRACT:

The present invention provides systems, methods, and screens for an optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically affect particular biological functions. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a high magnification fluorescence optical system, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is microplate having cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

17 Claims, 24 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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10. Document ID: US 6723557 B1

L4: Entry 10 of 47

File: USPT

Apr 20, 2004

US-PAT-NO: 6723557

DOCUMENT-IDENTIFIER: US 6723557 B1

TITLE: Caenorhabditis elegans LOV-1 gene

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sternberg; Paul W.	Pasadena	CA		
Barr; Maureen M.	Pasadena	CA		

US-CL-CURRENT: 435/320.1; 536/23.1, 536/23.5, 800/13

ABSTRACT:

Nematodes, such as Caenorhabditis elegans, that express mutant and wild-type orthologs of human genes involved in polycystic kidney diseases (PKDs), are used to study the functions of the proteins encoded by the genes, to screen for other genes involved in the diseases, to identify mutations involved in the diseases, and to screen for drugs that affect PKD. Behaviors controlled by the action of the genes or gene products are identified and used in the assays. Hence an animal model is provided that permits study of the etiology of polycystic kidney disease and provides a tool to identify the genes involved in the disease pathway, and to identify compounds that may be used to treat or alter the disease progression, lessen its severity or ameliorate symptoms. The nematode genes that encode protein products, mutants of the genes, vectors contain the genes and mutant genes and nematode strains that contain the vectors are also provided.

6 Claims, 7 Drawing figures

Exemplary Claim Number: 1,6

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw De
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11. Document ID: US 6686188 B2

L4: Entry 11 of 47

File: USPT

Feb 3, 2004

US-PAT-NO: 6686188

DOCUMENT-IDENTIFIER: US 6686188 B2

TITLE: Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gu; Yizhong	Sunnyvale	CA		
Ji; Yonggang	San Mateo	CA		
Penn; Sharron Gaynor	San Mateo	CA		
Hanzel; David Kagen	Palo Alto	CA		
Rank; David Russell	Fremont	CA		
Chen; Wensheng	Mountain View	CA		
Shannon; Mark E.	Livermore	CA		

US-CL-CURRENT: 435/196; 435/252.3, 435/254.11, 435/287.2, 435/320.1, 435/325,
435/419, 536/23.2, 536/23.5

ABSTRACT:

Presented are a novel myosin-like protein particularly expressed in human heart and muscle, isolated nucleic acids encoding the myosin-like protein, compounds and compositions derivable directly or indirectly therefrom, and diagnostic and therapeutic methods for using the same.

50 Claims, 19 Drawing figures
 Exemplary Claim Number: 1
 Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw Dg
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☐ 12. Document ID: US 6682899 B2

L4: Entry 12 of 47

File: USPT

Jan 27, 2004

US-PAT-NO: 6682899

DOCUMENT-IDENTIFIER: US 6682899 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA		
Gaalema; Stephen	Colorado Springs	CO		
Murphy; Randall B.	Irvington	NY		

US-CL-CURRENT: 435/7.1; 356/215, 356/222, 356/317, 422/57, 422/58, 422/68.1,
422/82.05, 422/82.08, 427/162, 427/167, 427/8, 435/283.1, 435/288.7, 435/4, 435/6,
435/7.9, 435/7.92, 435/808, 435/973, 435/975, 436/164, 436/172 , 436/518, 436/524,
436/527, 436/805

ABSTRACT:

Solid phase methods for the identification of an analyte in a biological medium, such as a body fluid, using bioluminescence are provided. A chip designed for

performing the method and detecting the bioluminescence is also provided. Methods employing biomineralization for depositing silicon on a matrix support are also provided. A synthetic synapse is also provided.

1 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawn De
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☐ 13. Document ID: US 6673610 B2

L4: Entry 13 of 47

File: USPT

Jan 6, 2004

US-PAT-NO: 6673610

DOCUMENT-IDENTIFIER: US 6673610 B2

TITLE: Method for mutagenesis

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyawaki; Atsushi	Saitama			JP
Sawano; Asako	Tokyo			JP

US-CL-CURRENT: 435/440; 435/6, 435/91.2, 536/23.1, 536/24.3

ABSTRACT:

The present invention provides an entirely new method for mutagenesis, which is simple, speedy, economical, and widely-applicable.

A method for mutagenesis comprising steps of: DNA synthesis in which primers which have mutations and a phosphorylated 5'-terminus are annealed to a template DNA and then subjected to an elongation reaction using a thermostable high-fidelity DNA polymerase, after which the phosphorylated 5'-terminus and the elongated terminus are ligated by means of a thermostable DNA ligase to synthesize a circular DNA containing said primers; digestion in which at least DNAs other than the amplified circular DNA are digested into several fragments; and double-stranded DNA synthesis in which, with the several fragments obtained in the above step of digestion as megaprimers, said megaprimers are annealed to said circular DNA synthesized in the above step of DNA synthesis, followed by an elongation reaction performed using said thermostable high-fidelity DNA polymerase.

12 Claims, 0 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawn De
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☐ 14. Document ID: US 6671624 B1

L4: Entry 14 of 47

File: USPT

Dec 30, 2003

US-PAT-NO: 6671624

DOCUMENT-IDENTIFIER: US 6671624 B1

TITLE: Machine readable storage media for detecting distribution of macromolecules between nucleus and cytoplasm in cells

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunlay; R. Terry	Pittsburg	PA		
Taylor; D. Lansing	Pittsburg	PA		
Gough; Albert H.	Pittsburg	PA		
Giuliano; Kenneth A.	Pittsburg	PA		

US-CL-CURRENT: 702/19; 382/133, 422/68.1, 435/4

ABSTRACT:

The present invention provides systems, methods, and screens for an optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically affect particular biological functions. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a high magnification fluorescence optical system, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

10 Claims, 24 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw Ds
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☐ 15. Document ID: US 6670449 B1

L4: Entry 15 of 47

File: USPT

Dec 30, 2003

US-PAT-NO: 6670449

DOCUMENT-IDENTIFIER: US 6670449 B1

TITLE: Hybrid molecules and their use for optically detecting changes in cellular microenvironments

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miesenbock; Gero	New York	NY		
De Angelis; Dino	New York	NY		
Rothman; James E.	New York	NY		

US-CL-CURRENT: 530/350

ABSTRACT:

The invention relates to methods and compositions which utilize the emission of light to monitor changes in microenvironments involving cells. The invention is especially useful for monitoring exocytotic activity such as detecting quantal release of synaptic vesicles. Fusion proteins of Cypridina luciferase and synaptotagmin-I or VAMP/synaptobrevin-2 were targeted to synaptic vesicles and, upon exocytosis, formed light-emitting complexes with luciferin present in the extracellular medium. Photon emissions in the presence of a depolarizing stimulus can be observed with these systems. pH-sensitive mutants of green fluorescent protein are also provided, which are useful for visualizing exocytosis and for imaging and measuring the pH of intracellular compartments.

32 Claims, 82 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 55

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw
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☐ 16. Document ID: US 6667153 B1

L4: Entry 16 of 47

File: USPT

Dec 23, 2003

US-PAT-NO: 6667153

DOCUMENT-IDENTIFIER: US 6667153 B1

TITLE: Composition and method for detecting mutagens

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thomas; Susan Margaret	Mitcham SA	5062		AU

US-CL-CURRENT: 435/6; 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

ABSTRACT:

The present invention relates to methods and compositions for detecting a mutagen. The compositions include a DNA construct, an expression vector, and a host cell including a mutagen sensitive gene operably linked to a fluorescent protein. The method includes exposing a host cell including a mutagen sensitive gene operably

linked to a fluorescent protein and monitoring expression of the fluorescent protein.

19 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 17. Document ID: US 6656700 B2

L4: Entry 17 of 47

File: USPT

Dec 2, 2003

US-PAT-NO: 6656700
DOCUMENT-IDENTIFIER: US 6656700 B2

TITLE: Isoforms of human pregnancy-associated protein-E

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gu; Yizhong	Sunnyvale	CA		
Shannon; Mark E.	Livermore	CA		

US-CL-CURRENT: 435/23; 435/219, 435/252.3, 435/320.1, 435/325, 514/44, 536/23.2

ABSTRACT:

The invention provides isolated nucleic acids that encode three novel isoforms of human pregnancy associated plasma protein E, hPAPP-E, and fragments thereof, vectors for propagating and expressing PAPP-E nucleic acids, host cells comprising the nucleic acids and vectors of the present invention, proteins, protein fragments, and protein fusions of the novel PAPP-E isoforms, and antibodies thereto. The invention further provides transgenic cells and non-human organisms comprising human PAPP-E isoform nucleic acids, and transgenic cells and non-human organisms with targeted disruption of the endogenous orthologue of the human PAPP-E gene. The invention further provides pharmaceutical formulations of the nucleic acids, proteins, and antibodies of the present invention, and diagnostic, investigational, and therapeutic methods based on the PAPP-E nucleic acids, proteins, and antibodies of the present invention.

14 Claims, 28 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 18. Document ID: US 6649357 B2

L4: Entry 18 of 47

File: USPT

Nov 18, 2003

US-PAT-NO: 6649357
DOCUMENT-IDENTIFIER: US 6649357 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA		
Gaalema; Stephen	Colorado Springs	CO		
Murphy; Randall B.	Irvington	NY		

US-CL-CURRENT: 435/7.1; 356/215, 356/222, 356/317, 422/57, 422/58, 422/68.1,
422/82.05, 422/82.08, 435/288.7, 435/6, 435/7.9, 435/808, 435/973, 435/975,
436/164, 436/172, 436/518, 436/524, 436/527, 436/532, 436/805

ABSTRACT:

Solid phase methods for the identification of an analyte in a biological medium, such as a body fluid, using bioluminescence are provided. A chip designed for performing the method and detecting the bioluminescence is also provided. Methods employing biomineralization for depositing silicon on a matrix support are also provided. A synthetic synapse is also provided.

12 Claims, 24 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIMC	Draw De
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☐ 19. Document ID: US 6649356 B2

L4: Entry 19 of 47

File: USPT

Nov 18, 2003

US-PAT-NO: 6649356
DOCUMENT-IDENTIFIER: US 6649356 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA		
Gaalema; Stephen	Colorado Springs	CO		
Murphy; Randall B.	Irvington	NY		

US-CL-CURRENT: 435/7.1; 356/215, 356/222, 356/317, 422/57, 422/58, 422/68.1,
422/82.05, 422/82.08, 435/288.7, 435/6, 435/7.9, 435/808, 435/973, 435/975,
436/122, 436/164, 436/518, 436/524, 436/527, 436/532, 436/805

ABSTRACT:

Solid phase methods for the identification of an analyte in a biological medium, such as a body fluid, using bioluminescence are provided. A chip designed for performing the method and detecting the bioluminescence is also provided. Methods employing biomineralization for depositing silicon on a matrix support are also provided. A synthetic synapse is also provided.

7 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Drawing
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☐ 20. Document ID: US 6620591 B1

L4: Entry 20 of 47

File: USPT

Sep 16, 2003

US-PAT-NO: 6620591
DOCUMENT-IDENTIFIER: US 6620591 B1

TITLE: System for cell-based screening

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunlay; R. Terry	Pittsburgh	PA		
Taylor; D. Lansing	Pittsburgh	PA		

US-CL-CURRENT: 435/7.2; 250/201.3, 356/300, 356/326, 356/328, 382/133, 382/141,
382/260, 435/288.3, 435/288.4, 435/29, 435/40.5, 435/40.51, 435/7.21, 436/172,
436/546, 436/63, 436/800, 436/809

ABSTRACT:

The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

28 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 21. Document ID: US 6608189 B1

L4: Entry 21 of 47

File: USPT

Aug 19, 2003

US-PAT-NO: 6608189

DOCUMENT-IDENTIFIER: US 6608189 B1

**** See image for Certificate of Correction ****

TITLE: Fluorescent protein sensors for measuring the pH of a biological sample

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Llopis; Juan	La Jolla	CA		
Wachter; Rebekka M.	Creswell	OR		
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 536/23.5; 435/252.3, 435/254.4, 435/325, 435/410, 435/810, 530/350

ABSTRACT:

Disclosed are fluorescent protein sensors for measuring the pH of a sample, nucleic acids encoding them, and methods of use. The preferred fluorescent protein sensors are variants of the green fluorescent protein (GFP) from Aequorea victoria. Also disclosed are compositions and methods for measuring the pH of a specific region of a cell, such as the mitochondrial matrix or the Golgi lumen.

8 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 22. Document ID: US 6607879 B1

L4: Entry 22 of 47

File: USPT

Aug 19, 2003

US-PAT-NO: 6607879

DOCUMENT-IDENTIFIER: US 6607879 B1

TITLE: Compositions for the detection of blood cell and immunological response gene expression

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cocks; Benjamin G.	Sunnyvale	CA		
Stuart; Susan G.	Montara	CA		
Seilhamer; Jeffrey J.	Los Altos Hills	CA		

US-CL-CURRENT: 435/6; 435/69.1, 536/23.1, 536/24.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

ABSTRACT:

The present invention relates to a composition comprising a plurality of polynucleotide probes. The composition can be used as hybridizable array elements in a microarray. The present invention also relates to a method for selecting polynucleotide probes for the composition.

7 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw Ds
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☐ 23. Document ID: US 6600090 B1

L4: Entry 23 of 47

File: USPT

Jul 29, 2003

US-PAT-NO: 6600090

DOCUMENT-IDENTIFIER: US 6600090 B1

TITLE: Transgenic plants expressing puroindolines and methods for producing such plants

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Giroux; Michael J.	Bozeman	MT		
Sherwood; John E.	Bozeman	MT		
Krishnamurthy; Krish	Bozeman	MT		
Morris; Craig F.	Pullman	WA		

US-CL-CURRENT: 800/279; 435/411, 435/412, 435/419, 800/301, 800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3

ABSTRACT:

This invention relates to plant cells, plant tissues or plants transgenic for a nucleic acid encoding a puroindoline. This invention also relates to methods of producing such transgenic plant cells, plant tissues or plants. The transgenic plants produced by the methods of this invention are useful in reducing the damage caused by plant pests, especially plant pathogens such as fungi and bacteria.

26 Claims, 0 Drawing figures

Exemplary Claim Number: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K000C	Draw De
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☐ 24. Document ID: US 6593135 B2

L4: Entry 24 of 47

File: USPT

Jul 15, 2003

US-PAT-NO: 6593135

DOCUMENT-IDENTIFIER: US 6593135 B2

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wachter; Rebekka M.	Creswell	OR		
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 435/325; 435/252.3, 435/252.33, 435/254.11, 435/320.1, 435/410,
536/23.1, 536/23.4, 536/23.6

ABSTRACT:

Engineered fluorescent proteins, nucleic acids encoding them and methods of use.

30 Claims, 66 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 62

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K000C	Draw De
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☐ 25. Document ID: US 6589767 B1

L4: Entry 25 of 47

File: USPT

Jul 8, 2003

US-PAT-NO: 6589767

DOCUMENT-IDENTIFIER: US 6589767 B1

TITLE: Methods and compositions for synthesis of long chain polyunsaturated fatty acids

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		
Mukerji; Pradip	Gahanna	OH		

Huang; Yung-Sheng	Upper Arlington	OH
Thurmond; Jennifer	Columbus	OH
Chaudhary; Sunita	Westerville	OH

US-CL-CURRENT: 435/189

ABSTRACT:

The present invention relates to a fatty acid .DELTA.5-desaturase able to catalyze the conversion of dihomogamma-linolenic acid to arachidonic acid. Nucleic acid sequences encoding a .DELTA.5-desaturase, nucleic acid sequences which hybridize thereto, DNA constructs comprising a .DELTA.5-desaturase gene, and recombinant host microorganism or animal expressing increased levels of a .DELTA.5-desaturase are described. Methods for desaturating a fatty acid at the .DELTA.5 position and for producing arachidonic acid by expressing increased levels of a .DELTA.5 desaturase are disclosed. Fatty acids, and oils containing them, which have been desaturated by a .DELTA.5-desaturase produced by recombinant host microorganisms or animals are provided. Pharmaceutical compositions, infant formulas or dietary supplements containing fatty acids which have been desaturated by a .DELTA.5-desaturase produced by a recombinant host microorganism or animal also are described.

22 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Draw De
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☐ 26. Document ID: US 6573039 B1

L4: Entry 26 of 47

File: USPT

Jun 3, 2003

US-PAT-NO: 6573039

DOCUMENT-IDENTIFIER: US 6573039 B1

TITLE: System for cell-based screening

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunlay; R. Terry	Pittsburgh	PA		
Taylor; D. Lansing	Pittsburgh	PA		

US-CL-CURRENT: 435/4, 250/201.3, 348/345, 348/80, 356/300, 356/319, 356/326,
356/328, 382/128, 382/129, 382/133, 382/173, 382/254, 382/255, 382/286, 382/291,
435/288.3, 435/29, 435/40.5, 435/40.51, 435/7.2, 435/7.21, 436/172, 436/501,
436/63, 436/800, 436/807, 436/809

ABSTRACT:

The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological

activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

15 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 27. Document ID: US 6489458 B2

L4: Entry 27 of 47

File: USPT

Dec 3, 2002

US-PAT-NO: 6489458

DOCUMENT-IDENTIFIER: US 6489458 B2

**** See image for Certificate of Correction ****

TITLE: DNA-based transposon system for the introduction of nucleic acid into DNA of a cell

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hackett; Perry B.	Shoreview	MN		
Ivics; Zoltan	Amsterdam			NL
Izsvak; Zsuzsanna	Amsterdam			NL

US-CL-CURRENT: 536/23.2; 435/325, 435/440, 435/445, 530/350, 536/23.1, 536/23.5

ABSTRACT:

This invention relates to a system for introducing nucleic acid into the DNA of a cell. The system includes the use of a member of the SB family of transposases (SB) or nucleic acid encoding the transposase and a nucleic acid fragment that includes a nucleic acid sequence with flanking inverted repeats. The transposase recognizes at least a portion of an inverted repeats and incorporates the nucleic acid sequence into the DNA. Methods for use of this system are discussed.

64 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 28. Document ID: US 6489141 B1

L4: Entry 28 of 47

File: USPT

Dec 3, 2002

US-PAT-NO: 6489141

DOCUMENT-IDENTIFIER: US 6489141 B1

**** See image for Certificate of Correction ****

TITLE: Nucleic acid sequence and methods for selectively expressing a protein in a target cell or tissue

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frazer; Ian Hector	St. Lucia			AU
Zhou; Jian	late of Jindalee			AU

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 435/91.4, 435/91.41, 435/91.42, 514/44

ABSTRACT:

A synthetic polynucleotide and a method are disclosed for selectively expressing a protein in a target cell or tissue of a mammal. Selective expression is effected by replacing at least one existing codon of a parent polynucleotide encoding a protein of interest with a synonymous codon to produce a synthetic polynucleotide having altered translational kinetics compared to the parent polynucleotide. The synonymous codon is selected such that it has a higher translational efficiency in the target cell or tissue relative to one or more other cells or tissues of the mammal.

60 Claims, 35 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EOAC	Drawing
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☐ 29. Document ID: US 6458547 B1

L4: Entry 29 of 47

File: USPT

Oct 1, 2002

US-PAT-NO: 6458547

DOCUMENT-IDENTIFIER: US 6458547 B1

TITLE: Apparatus and method for detecting and identifying infectious agents

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Bryan; Bruce J.	Beverly Hills	CA
Gaalema; Stephen	Colorado Springs	CO
Murphy; Randall B.	Irvington	NY

US-CL-CURRENT: 435/7.1; 356/215, 356/222, 356/317, 422/57, 422/58, 422/82.05,
422/82.08, 435/288.7, 435/6, 435/808, 435/973, 435/975, 436/172, 436/527, 436/805

ABSTRACT:

Solid phase methods for the identification of an analyte in a biological medium, such as a body fluid, using bioluminescence are provided. A chip designed for performing the method and detecting the bioluminescence is also provided. Methods employing biomineralization for depositing silicon on a matrix support are also provided. A synthetic synapse is also provided.

66 Claims, 20 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 30. Document ID: US 6436682 B1

L4: Entry 30 of 47

File: USPT

Aug 20, 2002

US-PAT-NO: 6436682
DOCUMENT-IDENTIFIER: US 6436682 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA		
Szent-Gyorgyi; Christopher	Pittsburgh	PA		

US-CL-CURRENT: 435/189; 124/74, 124/76, 222/1, 42/54, 435/183, 446/473

ABSTRACT:

Isolated and purified nucleic acid molecules that encode a luciferase from Renilla mulleri, Gaussia and Pleuromamma, and the proteins encoded thereby are provided. Isolated and purified nucleic acids encoding green fluorescent proteins from the genus Renilla and Ptilosarcus, and the green fluorescent proteins encoded thereby are also provided. Compositions and combinations comprising the green fluorescent proteins and/or the luciferase are further provided.

9 Claims, 14 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
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Generate OACS				

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☐ 31. Document ID: US 6416959 B1

Using default format because multiple data bases are involved.

L4: Entry 31 of 47

File: USPT

Jul 9, 2002

US-PAT-NO: 6416959

DOCUMENT-IDENTIFIER: US 6416959 B1

TITLE: System for cell-based screening

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Giuliano; Kenneth	Pittsburgh	PA	15209	
Kapur; Ravi	Gibsonia	PA	15044	

US-CL-CURRENT: 435/7.2; 250/201.3, 348/345, 356/300, 356/326, 356/328, 382/141,
382/255, 435/288.3, 435/288.4, 435/29, 435/40.5, 435/40.51, 435/7.21, 436/172,
436/546, 436/800, 436/809

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw De
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☐ 32. Document ID: US 6340588 B1

L4: Entry 32 of 47

File: USPT

Jan 22, 2002

US-PAT-NO: 6340588

DOCUMENT-IDENTIFIER: US 6340588 B1

TITLE: Matrices with memories

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nova; Michael P.	Rancho Santa Fe	CA		
Potash; Hanan	Austin	TX		

US-CL-CURRENT: 435/287.1; 435/287.2, 435/288.1, 435/288.3, 435/288.4, 435/288.7,
530/300, 530/334, 530/350, 536/23.1, 536/24.3, 536/25.3

ABSTRACT:

Combinations, called matrices with memories, of matrix materials that are encoded with an optically readable code are provided. The matrix materials are those that are used in as supports in solid phase chemical and biochemical syntheses, immunoassays and hybridization reactions. The matrix materials may additionally include fluophors or other luminescent moieties to produce luminescing matrices with memories. The memories include electronic and optical storage media and also include optical memories, such as bar codes and other machine-readable codes. By virtue of this combination, molecules and biological particles, such as phage and viral particles and cells, that are in proximity or in physical contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked molecules and biological materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemistry, isolation and purification of target macromolecules, capture and detection of macromolecules for analytical purposes, selective removal of contaminants, enzymatic catalysis, cell sorting, sensors and drug delivery, chemical modification and other uses. Methods for tagging molecules, biological particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non-radioactive proximity assays, and other methods are also provided. Sensors containing a memory in combination with a matrix are also provided.

20 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 40

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NOTE	Draw De
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☐ 33. Document ID: US 6287817 B1

L4: Entry 33 of 47

File: USPT

Sep 11, 2001

US-PAT-NO: 6287817

DOCUMENT-IDENTIFIER: US 6287817 B1

TITLE: Fusion proteins for protein delivery

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Pamela B.	Cleveland Heights	OH		
Ferkol; Thomas	Concord	OH		
Eckman; Elizabeth	Ponte Vedra Beach	FL		
Schreiber; John	Gates Mills	OH		
Luk; John M.	South Horizons			HK

US-CL-CURRENT: 435/69.7; 435/6, 514/12, 530/866, 530/867, 536/23.1

ABSTRACT:

A protein conjugate consisting of antibody directed at the pIgR and A.sub.1 AT can be transported specifically from the basolateral surface of epithelial cells to the apical surface. This approach provides us with the ability to deliver a therapeutic protein directly to the apical surface of the epithelium, by targeting the pIgR with an appropriate ligand. Thus, the highest concentration of the antiprotease will be at the apical surface, where it can do the greatest good in accelerating the inflammatory response.

15 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 34. Document ID: US 6261787 B1

L4: Entry 34 of 47

File: USPT

Jul 17, 2001

US-PAT-NO: 6261787

DOCUMENT-IDENTIFIER: US 6261787 B1

**** See image for Certificate of Correction ****

TITLE: Bifunctional molecules for delivery of therapeutics

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Pamela B.	Cleveland heights	OH		
Ferkol, Jr.; Thomas W.	Concord	OH		
Eckman; Elizabeth	Ponte Vedra Beach	FL		

US-CL-CURRENT: 435/7.1; 435/69.7, 435/7.21, 514/12, 530/391.1, 530/391.7, 530/402, 530/807, 530/866, 536/23.1

ABSTRACT:

A bifunctional molecule consisting of a therapeutic molecule and a ligand which specifically binds a transcytotic receptor can be transported specifically from the basolateral surface of epithelial cells to the apical surface. This approach provides the ability to deliver a therapeutic molecule directly to the apical surface of the epithelium, by targeting the transcytotic receptor with an appropriate ligand. Thus, the highest concentration of the therapeutic molecule will be at the apical surface, where it can have the greatest therapeutic effect.

16 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 35. Document ID: US 6247995 B1

L4: Entry 35 of 47

File: USPT

Jun 19, 2001

US-PAT-NO: 6247995

DOCUMENT-IDENTIFIER: US 6247995 B1

TITLE: Bioluminescent novelty items

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce	Beverly Hills	CA	90210	

US-CL-CURRENT: 446/473; 124/74, 124/76, 222/1, 42/54, 435/189

ABSTRACT:

Systems and apparatus for generating bioluminescence, and combinations of these systems and apparatus with inanimate articles of manufacture to produce novelty items are provided. These novelty items, which are articles of manufacture, are designed for entertainment, recreation and amusement, include, toys, paints, slimy play material, textiles, particularly clothing, bubbles in bubble making toys and other toys that produce bubbles, balloons, personal items, such as bath powders, body lotions, gels, powders and creams, toothpastes and other dentifrices, soaps, body paints, and bubble bath, foods, such as gelatins, icings and frostings, beverages such as beer, wine, champagne, soft drinks, and ice cubes, fountains, including liquid "fireworks" and other such jets or sprays or aerosols of compositions that are solutions, mixtures, suspensions, powders, pastes, particles or other suitable formulation.

70 Claims, 19 Drawing figures

Exemplary Claim Number: 1,23

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw Ds
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☐ 36. Document ID: US 6232107 B1

L4: Entry 36 of 47

File: USPT

May 15, 2001

US-PAT-NO: 6232107

DOCUMENT-IDENTIFIER: US 6232107 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Bryan; Bruce J. Beverly Hills CA 90210
Szent-Gyorgyi; Christopher Pittsburgh PA

US-CL-CURRENT: 435/189; 435/183, 435/252.2, 435/320.1, 435/6, 435/69.1, 435/8

ABSTRACT:

Isolated and purified nucleic acid molecules that encode a luciferase from Renilla mulleri, Gaussia and Pleuromamma, and the proteins encoded thereby are provided. Isolated and purified nucleic acids encoding green fluorescent proteins from the genus Renilla and Ptilosarcus, and the green fluorescent proteins encoded thereby are also provided. Compositions and combinations comprising the green fluorescent proteins and/or the luciferase are further provided.

63 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
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☐ 37. Document ID: US 6152358 A

L4: Entry 37 of 47

File: USPT

Nov 28, 2000

US-PAT-NO: 6152358
DOCUMENT-IDENTIFIER: US 6152358 A
**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce	Beverly Hills	CA	90210	

US-CL-CURRENT: 229/87.19; 435/189, 493/955

ABSTRACT:

Novelty items that are combinations of articles of manufacture with bioluminescence generating systems and/or fluorescent proteins are provided. These novelty items, which are articles of manufacture, are designed for entertainment, recreation and amusement, and include toys, paints, slimy play material, textiles, particularly clothing, bubbles in bubble making toys and other toys that produce bubbles, balloons, personal items, such as cosmetics, bath powders, body lotions, gels, powders and creams, toothpastes and other dentifrices, soaps, body paints, and bubble bath, foods, such as gelatins, icings and frostings, beverages such as beer, wine, champagne, soft drinks, and glowing ice, fountains, including liquid "fireworks" and other such jets or sprays or aerosols of compositions that are solutions, mixtures, suspensions, powders, pastes, particles or other suitable formulation.

58 Claims, 34 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 38. Document ID: US 6150176 A

L4: Entry 38 of 47

File: USPT

Nov 21, 2000

US-PAT-NO: 6150176
DOCUMENT-IDENTIFIER: US 6150176 A

TITLE: Fluorescent protein sensors for measuring the pH of a biological sample

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Llopis; Juan	La Jolla	CA		
Wachter; Rebekka M.	Creswell	OR		
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 436/86; 530/350

ABSTRACT:

Disclosed are fluorescent protein sensors for measuring the pH of a sample, nucleic acids encoding them, and methods of use. The preferred fluorescent protein sensors are variants of the green fluorescent protein (GFP) from Aequorea victoria. Also disclosed are compositions and methods for measuring the pH of a specific region of a cell, such as the mitochondrial matrix or the Golgi lumen.

38 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 39. Document ID: US 6124128 A

L4: Entry 39 of 47

File: USPT

Sep 26, 2000

US-PAT-NO: 6124128
DOCUMENT-IDENTIFIER: US 6124128 A

TITLE: Long wavelength engineered fluorescent proteins

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Cubitt; Andrew B.	San Diego	CA		
Heim; Roger	Del Mar	CA		
Ormo; Mats F.	Huddinge			SE
Remington; S. James	Eugene	OR		

US-CL-CURRENT: 435/252.33; 435/252.3, 435/320.1, 536/23.1, 536/23.5

ABSTRACT:

Engineered fluorescent proteins, nucleic acids encoding them and methods of use.

37 Claims, 55 Drawing figures

Exemplary Claim Number: 9

Number of Drawing Sheets: 53

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KIMC	Draw De
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☐ 40. Document ID: US 6113886 A

L4: Entry 40 of 47

File: USPT

Sep 5, 2000

US-PAT-NO: 6113886

DOCUMENT-IDENTIFIER: US 6113886 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce	Beverly Hills	CA	90210	

US-CL-CURRENT: 424/49; 424/63, 424/64, 424/69, 424/70.1, 424/70.6, 424/70.7,
424/78.02, 424/94.4, 435/189, 510/119, 510/135, 510/392, 510/481

ABSTRACT:

Novelty items that are combinations of articles of manufacture with bioluminescence generating systems and/or fluorescent proteins are provided. These novelty items, which are articles of manufacture, are designed for entertainment, recreation and amusement, and include toys, personal items, such as cosmetics, bath powders, body lotions, gels, powders and creams, toothpastes and other dentifrices, soaps, body paints, and bubble bath, fountains, including liquid "fireworks" and other such jets or sprays or aerosols of compositions that are solutions, mixtures, suspensions, powders, pastes, particles or other formulations.

30 Claims, 34 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw De
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☐ 41. Document ID: US 6072041 A

L4: Entry 41 of 47

File: USPT

Jun 6, 2000

US-PAT-NO: 6072041

DOCUMENT-IDENTIFIER: US 6072041 A

TITLE: Fusion proteins for protein delivery

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Pamela B.	Cleveland Heights	OH		
Ferkol; Thomas	Concord	OH		
Eckman; Elizabeth	Ponte Vedra Beach	FL		
Schreiber; John	Gates Mills	OH		
Luk; John M.	South Horizons			HK

US-CL-CURRENT: 530/391.1; 530/391.7, 530/402, 530/867, 536/23.1

ABSTRACT:

A protein conjugate consisting of antibody directed at the pIgR and A.sub.1 AT can be transported specifically from the basolateral surface of epithelial cells to the apical surface. This approach provides us with the ability to deliver a therapeutic protein directly to the apical surface of the epithelium, by targeting the pIgR with an appropriate ligand. Thus, the highest concentration of the antiprotease will be at the apical surface, where it can do the greatest good in accelerating the inflammatory response.

11 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw De
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☐ 42. Document ID: US 6048838 A

L4: Entry 42 of 47

File: USPT

Apr 11, 2000

US-PAT-NO: 6048838

DOCUMENT-IDENTIFIER: US 6048838 A

**** See image for Certificate of Correction ****

TITLE: Insecticidal protein toxins from xenorhabdus

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ensign; Jerald C.	Madison	WI		
Bowen; David J.	Oregon	WI		
Tenor; Jennifer L.	Madison	WI		
Ciche; Todd A.	Madison	WI		
Petell; James K.	Zionsville	IN		
Strickland; James A.	Lebanon	IN		
Orr; Gregory L.	Indianapolis	IN		
Fatig; Raymond O.	Zionsville	IN		
Bintrim; Scott B.	Carmel	IN		
Ffrench-Constant; Richard H.	Madison	WI		

US-CL-CURRENT: 514/2

ABSTRACT:

Proteins from the genus Xenorhabdus are toxic to insects upon oral exposure. These protein toxins can be applied to insect larvae food and plants for insect control.

13 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIMC	Draw. De
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☐ 43. Document ID: US 6017734 A

L4: Entry 43 of 47

File: USPT

Jan 25, 2000

US-PAT-NO: 6017734

DOCUMENT-IDENTIFIER: US 6017734 A

TITLE: Unique nucleotide and amino acid sequence and uses thereof

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Summers; Max D.	Bryan	TX		
Braunagel; Sharon C.	Bryan	TX		
Hong; Tao	Bryan	TX		

US-CL-CURRENT: 435/69.7; 435/320.1, 435/348, 435/365, 435/91.4, 536/23.1,
536/23.72, 536/24.1

ABSTRACT:

Provided are hydrophobic targeting sequences, which may serve to target heterologous proteins to a variety of cellular membranes. In particular, the structural components of the nuclear envelope, or those components which become nucleus-associated, may be targeted with the sequences provided. Also provided are methods of targeting heterologous proteins to particular membranes, and the use of these targeted proteins in therapeutic, diagnostic and insecticidal applications.

56 Claims, 47 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw
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☐ 44. Document ID: US 5972664 A

L4: Entry 44 of 47

File: USPT

Oct 26, 1999

US-PAT-NO: 5972664

DOCUMENT-IDENTIFIER: US 5972664 A

**** See image for Certificate of Correction ****

TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		
Mukerji; Pradip	Grahanna	OH		
Huang; Yung-Sheng	Arlington	OH		
Thurmond; Jennifer	Columbus	OH		
Chaudhary; Sunita	Westerville	OH		

US-CL-CURRENT: 435/136; 435/189, 435/252.3, 435/254.3, 435/320.1, 536/23.2

ABSTRACT:

The present invention relates to a fatty acid .DELTA.5-desaturase able to catalyze the conversion of dihomogamma-linolenic acid to arachidonic acid. Nucleic acid sequences encoding a .DELTA.5-desaturase, nucleic acid sequences which hybridize thereto, DNA constructs comprising a .DELTA.5-desaturase gene, and recombinant host microorganism or animal expressing increased levels of a .DELTA.5-desaturase are described. Methods for desaturating a fatty acid at the .DELTA.5 position and for producing arachidonic acid by expressing increased levels of a .DELTA.5 desaturase are disclosed. Fatty acids, and oils containing them, which have been desaturated by a .DELTA.5-desaturase produced by recombinant host microorganisms or animals are provided. Pharmaceutical compositions, infant formulas or dietary supplements containing fatty acids which have been desaturated by a .DELTA.5-desaturase produced by a recombinant host microorganism or animal also are described.

52 Claims, 21 Drawing figures

Exemplary Claim Number: 34

Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
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☐ 45. Document ID: US 5876995 A

L4: Entry 45 of 47

File: USPT

Mar 2, 1999

US-PAT-NO: 5876995

DOCUMENT-IDENTIFIER: US 5876995 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce	Beverly Hills	CA	90210	

US-CL-CURRENT: 435/189; 426/104, 426/250, 426/262, 426/268, 426/383, 426/422,
426/540, 426/590, 426/592, 426/656, 426/66 , 530/350

ABSTRACT:

Systems and apparatus for generating bioluminescence, and combinations of these systems and apparatus with inanimate articles of manufacture to produce novelty items are provided. These novelty items, which are articles of manufacture, are designed for entertainment, recreation and amusement, and include toys, paints, slimy play material, textiles, particularly clothing, bubbles in bubble making toys and other toys that produce bubbles, balloons, personal items, such as bath powders, body lotions, gels, powders and creams, toothpastes and other dentifrices, soaps, body paints, and bubble bath, foods, such as gelatins, icings and frostings, beverages such as beer, wine, champagne, soft drinks, and glowing ice, fountains, including liquid "fireworks" and other such jets or sprays or aerosols of compositions that are solutions, mixtures, suspensions, powders, pastes, particles or other suitable formulation. Cartridges for charging and/or recharging the novelty items with bioluminescence generating systems are also provided.

47 Claims, 34 Drawing figures

Exemplary Claim Number: 25

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
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☐ 46. Document ID: US 5777079 A

L4: Entry 46 of 47

File: USPT

Jul 7, 1998

US-PAT-NO: 5777079

DOCUMENT-IDENTIFIER: US 5777079 A

**** See image for Certificate of Correction ****

TITLE: Modified green fluorescent proteins

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsien; Roger Y.	La Jolla	CA		
Heim; Roger	Del Mar	CA		

US-CL-CURRENT: 530/350; 435/189, 435/69.1, 435/69.7, 530/855

ABSTRACT:

Modifications in the sequence of Aequorea wild-type GFP provide products having markedly different excitation and emission spectra from corresponding products from wild-type GFP. In one class of modifications, the product derived from the modified GFP exhibits an alteration in the ratio of two main excitation peaks observed with the product derived from wild-type GFP. In another class, the product derived from the modified GFP fluoresces at a shorter wavelength than the corresponding product from wild-type GFP. In yet another class of modifications, the product derived from the modified GFP exhibits only a single excitation peak and enhanced emission relative to the product derived from wild-type GFP.

64 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KONC	Draw D
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☐ 47. Document ID: US 5418155 A

L4: Entry 47 of 47

File: USPT

May 23, 1995

US-PAT-NO: 5418155

DOCUMENT-IDENTIFIER: US 5418155 A

TITLE: Isolated Renilla luciferase and method of use thereof

DATE-ISSUED: May 23, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cormier; Milton J.	Sedona	AZ		
Lorenz; William W.	Jefferson	GA		

US-CL-CURRENT: 435/189; 435/252.3, 435/252.33, 435/320.1, 435/69.1, 536/23.2

ABSTRACT:

Genetic material encoding luciferase from the marine coelenterate Renilla has been

isolated and characterized. This genetic material allows the production of peptides for use as labels in bioluminescence assays or can itself be directly used to identify luciferase genes from related organisms.

1 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Ds
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